

Treatment of Walls and Other Surfaces with **LUCAS**

SI-CO

WALL SIZE

A PRIMING COAT FOR WALLS

'Ties the wall to the wall'

DISSOLVES
IN COLD WATER

WHIGELT'S
PROCESS

Save the surface
you save all the rest

The Premier of all Wall Sizes

Used Extensively by many leading
painters, decorators and paper hangers

John Lucas & Co., Inc.

Paint and Varnish Makers since 1849

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Lucas

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"Ties the wall finish solidly to the wall"



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The many Architects, Construction Engineers and Master Painters who are acquainted with Mr. George Whigelt's services to the Paint and Varnish Industry during the last twenty years and who are familiar with the products of his formulation, will be interested in the fact that after many years research, he has been able to perfect an eminently satisfactory Wall Size which is soluble in cold water.

This product, which is manufactured exclusively by *John Lucas & Co., Inc.*, is known as "SI-CO Wall Size."

Not only is it soluble in cold water, but as a Wall Size it has many remarkable features which are superior to those of any other material used for similar purposes.

SI-CO neutralizes lime.

SI-CO is elastic and will adhere to any surface, such as wood, plaster, paint, varnish, glass or metal.

SI-CO will seal the surface of plaster or cement. It forms an absolutely non-saponifiable film.

SI-CO destroys and prevents vermin, such as bed-bugs, etc.

SI-CO does not peel, crack or check off. Glue, Shellac and many Varnish Sizes often cause peeling. SI-CO may safely be substituted for such other frequently unsatisfactory sizing materials.

Progressive Master Painters recognize this and have abandoned the use of such materials. Casein, frequently used for sizing by those who do not understand its objectionable features, dries to a hard shell, which causes chipping and scaling. Casein will dissolve only when mixed with alkalies, the enemy of paint and coloring matter.

PREPARING SI-CO FOR USE

Mix SI-CO with cold or lukewarm water, the same as mixing paste, to a creamy consistency. The proper proportion will be in the neighborhood of one pound of SI-CO to three-quarters of a gallon of water. Allow the mixture to stand and soak not less than one-half hour. Then reduce with water as required, according to the condition of the surface. The exact amount of water to be added will depend upon local conditions. The experienced painter will be able quickly to determine just what consistency will best meet the situation he has in hand. One pound of SI-CO will make from one and one-quarter to one and one-half gallons of size ready for use.

NEW PLASTER WALLS AND CEILINGS

Before applying SI-CO, see that the surface is in perfect condition. Remove all dirt, dust and plaster spots by brushing. Plaster spots which cannot be readily removed with a flat knife or scraper may be removed by using a wooden trowel or block, wet with water, which should be applied to the wall with a rotary motion. Care should be taken, in doing this, not to injure the smooth plaster surface.

Apply a first coat of SI-CO. Touch up imperfect spots, as directed above, with a second coat of SI-CO. If, after the first coat of paint, any imperfect spots still show, apply SI-CO to them.

Mention has been made above of the necessity of letting SI-CO dry thoroughly before applying subsequent coats of finishing material. This applies especially to calcimine. To obtain perfect results with calcimine, the SI-CO coat must be absolutely dry.

During summer months and on sultry days, calcimine frequently does not work satisfactorily. In such cases, its working will be greatly improved if SI-CO is added in a quantity which experiment may determine to be desirable. SI-CO may be added either dry to dry calcimine before mixing with water, or in liquid form to prepared calcimine.

SAND FINISHED WALLS

To prepare interior sand finished walls for the finishing coats, brush off all loose particles and apply SI-CO, one or two coats according to conditions. To fill cracks and broken places in sand finished walls, clean the sections to be filled free from all loose particles. Apply SI-CO freely and allow to set. Fill the cracks and broken places with a cement prepared as follows:

Make up a water mixture of SI-CO which will be about one-half the strength of that used for sizing purposes; add sufficient plaster of Paris mixed with more or less fine sand or pumice stone as conditions may require, to make a cement of workable consistency.

Exceptionally fine and artistic mottled effects are obtainable in applying Oil Stains (made from oil colors and thinners) or much reduced wall finishes over SI-CO on sand finished walls.

SEALING KNOTS, SAPPY SPOTS AND STREAKS

For sealing knots, sappy spots and streaks on interior woodwork, SI-CO has been found to be preferable to Shellac or other sizing preventives. One or two coats, according to conditions, are recommended. If necessary, apply a coat of SI-CO between coats of paint.

SI-CO FOR ROUGH SURFACES

The use of SI-CO in stopping suction is admirably illustrated in the treatment of rough interior surfaces. Rough and spongy surfaces which must be coated economically and which will absorb other more expensive coatings in large quantities, may be treated safely with SI-CO to stop suction and thus to permit the job to be done at a reasonable cost.

FRESCO WORK

For this kind of work SI-CO is indispensable if a proper ground is to be prepared. Real Fresco is done by working dry staining colors into fresh mortar. The only way to reproduce the same effect is to treat the surface with SI-CO, which will give a "tooth" to the surface after drying, upon which the staining colors may then be applied and properly manipulated.

PREPARING OLD INTERIOR WALLS

1. Filling cracks and broken out plaster. Clean the sections to be filled free from all loose particles. Apply SI-CO freely and allow to set. Fill the cracks and broken places with a cement prepared as follows:

Make up a water mixture of SI-CO which will be about one-half the strength of that used for sizing purposes; add sufficient plaster of Paris to make a cement of workable consistency. After filling the cracks and broken places, smooth the surface down evenly.

Plaster of Paris, alone, mixed with water, will set quickly, and will not give sufficient time to manipulate it properly. If the first bond of such a plaster of Paris filling is broken, it will not, thereafter, hold securely. SI-CO mixed with plaster of Paris as specified will cause the mixture to harden so slowly that there will be sufficient time before it sets for perfect manipulation, thereby insuring a bond with the old surface which will not show or be insecure.

Do not shellac cracks: Use SI-CO for coating over, which will make an invisible patch.

2. Water, Smoke and similar discolorations. Apply one or two coats of SI-CO, as conditions may require, allowing the first coat to dry thoroughly before applying the second coat. If surfaces are to be painted, it is recommended that discolored sections be further touched up with SI-CO after the first coat of paint is thoroughly dry.

3. Painting or tinting over wall paper, burlap, etc. Apply SI-CO freely, allow to dry thoroughly. A second coat of SI-CO between coats of paint on such work is highly recommended. Be careful to remove or to paste tightly all loose edges and corners of paper before applying the SI-CO.

4. Limewashed walls. Work done over limewashed walls cannot be guaranteed, but SI-CO, on account of its elasticity, is more apt to produce a satisfactory result than any other material.

PAPERHANGING, LINCRUSTA, BURLAP, ETC.

1. Finishing new walls. Apply SI-CO freely to stop all suction. This will permit the paper to be moved freely into proper position and will accordingly reduce the amount of time necessary to finish the job.

2. Refinishing old walls. Remove all foreign matter from the surface. If sections of the surface are porous, touch them up with SI-CO; and if the wall is not in first class condition, apply a coat of SI-CO over the entire surface.

For painted walls which are to be papered, SI-CO will be found to be the ideal sizing. No washing with soda will be required. It is recommended that glossy surfaces should first be rubbed with coarse sand paper.

3. SI-CO for wall paper paste, and for cal-cimine. Venice Turps is frequently used by paperhangers to make paste more adhesive. Sugar, molasses, etc., are also used for the

same purpose. Glycerine and Alcohol are used both for paste and calcimine to make them work more freely and to retard decomposition. SI-CO added in the place of such ingredients will give excellent results.

SCENIC AND CANVAS WORK

Preparing canvas with SI-CO will keep it pliable and will prevent the cracking and breaking off of colors in handling, folding and shipping, which is so frequently experienced. This is a very important consideration. SI-CO, instead of cheap glue, should also be used for mixing with dry colors, soaked previously in water, which are to be used for scenic and canvas work. By doing so, the colors will be bound firmly to the material to which they are applied, and the tendency for the coloring matter to strike through the material to which it is applied will be minimized. SI-CO is indispensable for preparing old scenic material for redecoration. SI-CO is an aid in fire-proofing fabrics.

ARCHITECTS' SPECIFICATIONS

In specifying for interior ceiling and wall finishing and decoration, it is important that the specifications shall provide not only a finish which shall be beautiful and durable, but that every safeguard shall be taken to prevent some unforeseen contingency ruining what, under other conditions, would be a perfect job. The confidence and respect of clients as to the ability and thoroughness of the Architect in specifying are sometimes shaken because a job "goes bad" for no apparent reason.

Notwithstanding the greatest care taken in prescribing the best materials, frequently embarrassment is encountered because of unsatisfactory developments arising shortly after the job is finished. Discolorations from unknown sources frequently ruin the finest finishes.

To avoid such occurrences has been the life work of Mr. George Whigelt, whose name is familiar to the most progressive Architects, Construction Engineers and Master Painters throughout the country. As a result of years of research, *Lucas* SI-CO Wall Size is offered as a product which is designed to insure pleasing and satisfactory results. Some coal-tar products and dyes are, particularly when fresh, inclined to bleed through paint and varnish coats. SI-CO is not recommended to arrest such bleeding. The variations in the chemical and physical composition of wall and ceiling surfaces, which variations are not distinguishable by the eye, always make the specifications of a wall finish of any kind more or less hazardous, unless precautions are taken to eliminate these variations from the equation. It is the purpose of *Lucas* SI-CO Wall Size to eliminate these variations from the situation.

SI-CO is an inexpensive insurance of the Architect's reputation for uniformly good work, provided, of course, that he specifies absolutely dependable wall finishes to go upon the foundation furnished by SI-CO.

Lucas' seventy-five years' reputation for excellence is solidly behind SI-CO Wall Size. We feel that in offering it to discriminating Architects, Structural Engineers and Master Painters we are making a marked contribution to fine interior finishing.

SI-CO SPREADING RATES

1-lb. SI-CO reduced with $1\frac{1}{2}$ gals. water has been found by careful test to cover the following surfaces:

	Sq. ft. per gal.
Over painted concrete.....	683
Over bare concrete	512
Over compo-board.....	683
Over burlap.....	98
Bare White Pine wood.....	341
Over 3 coats paint (good condition)....	1024
Over 3 coats Lu-Co-Flat.....	683
Hard smooth plaster.....	700

SI-CO IS PUT UP IN THE FOLLOWING SIZES:

100-lb. Wooden Box, in bulk.				
50-lb. " " " "				
25 4-lb. Packages in a case.				
12 4-lb. " " " "				
50 2-lb. " " " "				
25 2-lb. " " " "				
100 1-lb. " " " "				
50 1-lb. " " " "				
25 1-lb. " " " "				

LUCAS WALL FINISHES

Lucas manufactures a complete line of wall finishes of the highest quality and utmost dependability. Write to our nearest branch for information concerning them, or address your inquiry to the

Department of Practical Co-operation

John Lucas & Co., Inc.

322 Race Street
Philadelphia, Pa.

which is maintained to give information and advice to Architects, Construction Engineers, Master Painters and Home-Owners, without charge, relative to all aspects of painting, varnishing, staining, enameling, and other questions having to do with the beautification and preservation of property.

What Some of Our Customers Think of SI-CO

"I found SI-CO the most wonderful material I have ever used in 48 years' experience as a decorator."

WM. E. LUHMAN, New York City.

"SI-CO is the only size to use before calcimining, painting and papering. It is so easy to prepare and it gives better results than any other size manufactured."

J. W. RAINEY, Iron Mountain, Mich.

"After trying out SI-CO Wall Size over a very porous, mildewed wall, and applying one coat of paint, to my surprise I found it a perfectly clean covered job. In my forty years of experience as a painter and decorator, I am more than delighted in the results with SI-CO Wall Size, and desire to recommend it to any other practical painter."

G. T. BISHOP, Norfolk, Va.

"I wish to compliment the originator of SI-CO Wall Size in giving to the trade an article of great benefit and advantages.

"For years I have been at a loss to produce the proper foundation on a surface for decorative purposes and particularly to reproduce real fresco.

"SI-CO having such beneficial qualities has proven to me to be the ideal article for preparing a surface and particularly on account of its leaving a 'texture' which is most necessary for artistic work, has enabled me to reproduce real fresco effects.

"I have used SI-CO for fresco work and artistic decorations, besides other places, at the following:

"Churches—St. Anthony, Jersey City, N. J.; St. Patrick, Newark, N. J.

"Hotel—Astor, New York City.

"Theatres—Rivoli, New York City; Majestic, Hartford, Conn.

"Private Residences—Judge Otterberg's residence, N. Y.

"I am making this known for the benefit of the brethren in my craft, as I am sure they will appreciate to be informed how to prepare surfaces for ideal results."

FREDERICK MARSCHALL,
1416 Broadway, New York City.

What Some of Our Customers Think of SI-CO

"Will you please send me a case of twenty-five one-pound packages of SI-CO?"

"I put SI-CO Wall Size to the severe test of covering a very strongly painted aniline drop. True to the statement that it would cover, it did, and also was pliable. The many uses that this sizing can be put to, I have not yet had the opportunity nor time to try, but it has in this short time and trial proved to be a medium that will be of great use to me."

RALPH S. BRETT, Artist,
Providence Opera House, R. I.

"I have been using SI-CO Wall Size on several very difficult jobs and have been very favorably impressed with its performance.

"I have proved to my own satisfaction that two coats of paint are sufficient to thoroughly cover a new plastered surface after it has had one coat of SI-CO. This means a great saving in paint ordinarily used for priming coat as well as giving a much smoother finished job over SI-CO Wall Size.

"Usually, one coat of SI-CO is enough for a new plastered wall, but if after the first coat of paint, spots burn through, I just brush a bit of SI-CO over the spots, and then go right ahead with the second coat of paint. In a case of this kind before, we have always used a shellac which would show through one coat of paint. However, SI-CO does not show through the following coat of paint.

"Where SI-CO is mixed up over night, I found that it goes much farther as it can carry more water. It never has any objectionable smell nor hurts the hand.

"Over brick walls, Compo-board, a stucco or rough finished plaster, for interior work, SI-CO has no equal for economy or performance. It goes farther than any other Size, saves one to two coats of priming paint and seals up an irregular surface like stucco so well that less paint is required for the finishing coat besides giving a much smoother job when completed.

"I can truthfully say that in all my years of painting experience, I have never found any size which will do as many difficult things as well as SI-CO."

HARRY MACKLEER,
Germantown, Phila., Pa.

What Some of Our Customers Think of SI-CO

"We have used your SI-CO Wall Size and find it very satisfactory, and it does all that you claim for it.

"We are using this on our walls and find that it saves a coat of paint and have adopted its use for all of our future work. We are wondering how we got along without this product in the past. No paint shop would be complete without some of this material."

THE GOODENOUGH-MAYO CO.,
C. G. REED, Manager.
Crawford House,
Boston, Mass.

"I can highly recommend Lucas SI-CO as a wall sizing both for wall paper and paint.

"I find it does better work than sizing varnishes and is much more convenient and economical on any kind of plaster."

T. J. NELSON,
Brewer, Maine.



The Giant Painter

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